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Representative photograph, actual product appearance may vary.

SS94A2

SS94 Series Noise Shielded Ratiometric Linear Sensors, VDC supply voltage

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

FEATURES

- · Single current sinking or current sourcing linear output
- Improved temperature stability
- Standard mounting centers
- Laser trimmed thin film and thick film resistors minimize sensitivity variations and compensate for temperature variations

OPERATION

The SS9 utilizes a Hall effect integrated circuit chip which provides increased temperature stability and performance. Laser trimmed thick film resistors on theceramic substrate and thin film resistors on the integrated circuit reduce null and gain shifts over temperature which results in consistent sensitivity from one deviceto the next.

APPLICATION CONSIDERATION: The output is clamped at the high end. Clamping voltage may be as low as 9 VDC. The output will not exceed the clamping voltage regardless of field strength or power supply.



SS94A2

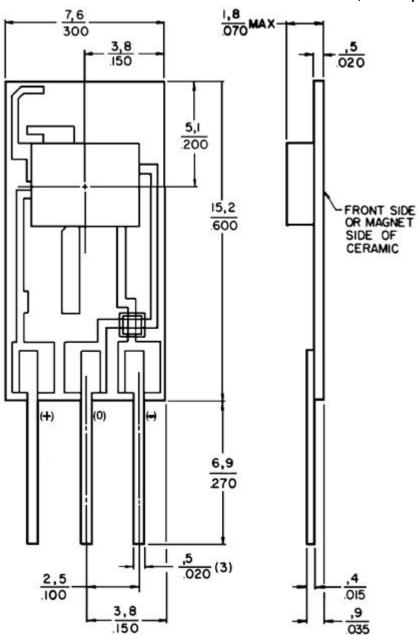
SS94 Series Noise Shielded Ratiometric Linear Sensors, VDC supply voltage

| Product Specifications | |
|--|-------------------------------------|
| Product Type | Hall Effect Linear Position Sensor |
| Package Style | Ceramic |
| Supply Voltage | 6.6 Vdc to 12.6 Vdc |
| Supply Current max., (mA) @ 25 °C | 30 |
| Output Type | Sink/Source |
| Output Current max., (mA) | 1 |
| Magnetic Actuation Type | Ratiometric |
| Sensitivity @ 25 °C | 5.0 mV ± .1 mV/gauss |
| Operating Temperature Range | -40 °C to 125 °C [-40 °F to 257 °F] |
| Linearity (% of Span) | -0.8 % typical/-1.5 % max. |
| Temperature Error (@ 25 °C) Null Shift (%/°C) | -0.02 % min., +0.02 % max. |
| Temperature Error (@ 25 °C) Sensitivity (%/°C) | -0.02 % min., +0.02 % max. |
| Magnetic Range min. | -500 to +500 |
| Response Time (µs) | 3 Typical |
| Vout (0 gauss @ 25 °C) | 4.00 ± .04V |
| Availability | Global |
| Series Name | SS94 Series |

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